

Amendments to the Specification:

Please replace the paragraph beginning at page 1, line 6 with the following amended paragraph:

The present invention relates, in general, to a method for preparing a poly(trimethylene terephthalate) (PTT) carpet, and in particular, to a method for preparing a poly(trimethylene terephthalate) carpet whose quality, functionality, and workability are improved by optimizing processing conditions of the post-process comprising cabling, heat setting, tufting, dyeing, ~~beeking~~ backing, and shearing.

Please replace the paragraph beginning at page 3, line 14 with the following amended paragraph:

Therefore, it is an object of the present invention to avoid disadvantages of prior arts, and to provide a method for preparing a poly(trimethylene terephthalate) carpet whose quality, functionality, and workability are improved by optimizing processing conditions of the post-process comprising cabling, heat setting, tufting, dyeing, ~~beeking~~ backing, and shearing.

Please replace the paragraph beginning at page 4, line 7 with the following amended paragraph:

(B) heat-setting twisted poly(trimethylene terephthalate) yarns ~~with a density of 200 to 240 g/m~~ by use of a Superba heat-setting device at a main tunnel temperature of 120 to 160°C and a band speed of 4 to 9 m/min, in which 200 to 240 g of the yarns are put on each meter of a metal plate of the heat-setting device;

Please replace the paragraph beginning at page 4, line 16 with the following amended paragraph:

(E) ~~beeking~~ backing a dyed carpet; and

Please replace the paragraph beginning at page 8, line 21 with the following amended paragraph:

The poly(trimethylene terephthalate) yarns of the present invention are subjected to post-processes such as cabling, heat setting, tufting, dyeing, ~~beeking~~ backing, and shearing to prepare a carpet.

Please replace the paragraph beginning at page 9, line 9 with the following amended paragraph:

Next, the twisted yarns are heat set (S2). Generally, a heat setting device may be Autoclave, Seussen, or ~~Superbar~~ Superba. According to the present invention, ~~Superbar~~ Superba is used. 200 to 240 g of the twisted yarns are preferably put on each meter of a metal plate of the heat-setting device. The twisted yarns ~~with a density of 200 to 240 g/m~~ are preferably heat set at a main tunnel temperature of 120 to 160°C and a band speed of 4 to 9 m/min with the use of steam.

Please replace the paragraph beginning at page 9, line 15 with the following amended paragraph:

For example, when the temperature is less than 120°C, the edges of pile are readily frayed to give a poor appearance because yarns are not sufficiently heat set although bulk property is good. On the other hand, at a temperature higher than 160°C, the bulk property becomes too low to represent rich volume sense in the carpet. Furthermore, when the band speed and the ~~density~~ weight of the yarns on each meter of a metal plate deviate from the above range, physical properties of heat set yarns are poor.

Please replace the paragraph beginning at page 10, line 16 with the following amended paragraph:

For example, the weight and volume sense are poor at 5 stitches/inch or less. On the other hand, at 15 stitches/inch or more, drawing and peeling strengths are drastically reduced because yarns are not uniformly adhered to the foundation of cloth during ~~beeking~~ backing.

Please replace the paragraph beginning at page 11, line 11 with the following amended paragraph:

In the step of ~~beeking~~ backing (S5), the dyed carpet is ~~beek~~ back coated with latex so that piles do not ~~eame~~ come off, followed by being adhered to a second foundation cloth such as jute and polypropylene foundation cloth, and PVC or SBS (styrene butadiene styrene) is used as an auxiliary mat, i.e., a ~~beeking~~ backing reinforcement. Latex comprises solids of 80%, in detail, base latex of 30 to 50%, CaCO_3 of 50 to 70%, dispersing agent, and viscosity enhancing agent. To increase a reserve effect, small amount of Al_2O_3 , or Al_2OH_3 $\text{Al}(\text{OH})_3$ may be added to latex.

Please replace the paragraph beginning at page 14, line 21 with the following amended paragraph:

With the use of a cable twister, the resulting BCF yarns were Z-twisted at 194 twists/m, followed by heat-setting the twisted yarns by a Superba unit. 240 g of the twisted yarns were put on each meter of a metal plate of the Superba unit. Twisted yarns ~~with a density of 240 g/m~~ were heat set at a main tunnel temperature of 138°C and a band speed of 5.14 m/min (6 m/70 sec). The heat-set yarns were then planted on polypropylene foundation cloth with the use of a tufting machine with a 1/10 gauge. The pile was of a cut pile style with a height of 12 mm, 13 stitches/inch, and a grey yarn weight of 4 kg/3.3 m².

Please replace the paragraph beginning at page 15, line 21 with the following amended paragraph:

The procedure of example 1 was repeated except that a main tunnel temperature, a band speed, and a ~~density~~ weight of a grey yarn on each meter of a metal plate were varied as described in Table 1. The resulting carpet was evaluated in terms of physical properties. The results are described in Table 2.

Please replace the paragraph beginning at page 16, line 4 with the following amended paragraph:

To compare physical properties of the carpets varied according to heat setting conditions, grey yarns according to example 1 were heat set under operating conditions as described in Table 1, below. After that, heat-set yarns were subjected to tufting, dyeing, ~~beeking~~ backing, and shearing steps in the same manner as example 1 to produce a carpet. The resulting carpet was evaluated in terms of physical properties, and the results are described in Table 2.

Please replace the paragraph beginning at page 16, line 15 with the following amended paragraph:

¹Density here refers to the weight of a grey yarn on each meter of a band.

Please replace the paragraph beginning at page 18, line 12 with the following amended paragraph:

In case of comparative example 5, adhesives were not sufficiently coated to the carpet during ~~beeking~~ backing because the interval between stitches was too narrow, and so drawing and peeling strengths were lowered. Also, at 20 stitches/inch as described in comparative example 6, appearance properties such as weight, sense of density, and sense of touch were very poor although drawing and peeling strengths were not bad.

Please replace the abstract at page 24 with the following amended abstract:

Disclosed is a method for preparing a poly(trimethylene terephthalate) carpet, in which the poly(trimethylene terephthalate) carpet is prepared from poly(trimethylene terephthalate) yarns through the post-processes comprising cabling, heat setting, tufting, dyeing, ~~beeking~~ backing, and shearing. The poly(trimethylene terephthalate) yarns have advantages of improved quality, functionality, and workability by optimizing operating conditions of the steps.